

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Herose GmbH Armaturen und Metalle</b>
<b>Address</b>	Elly-Heuss-Knapp-Str. 12, Bad Oldesloe, 23843, Germany
<b>Type</b>	Valves - General
<b>Description</b>	see Appendix
<b>Trade Name</b>	Cryogenic-Globe and Globe/Check Valves
<b>Application</b>	LNG and cryogenic service on board of ships classed or intended for classification with Lloyd's Register.
<b>Specified Standard</b>	Lloyd's Register's Rules and Regulations for the Classification of Ships, 2019; Lloyd's Register's Rules and Regulations for the Construction and Classification of for the Carriage of Liquefied Gases in Bulk, 2019; BS 6364; on request acc. EN ISO 10497
<b>Ratings</b>	Nominal pressure: 50 bar for DN 10 to DN 100, 40 bar for DN 150, 25 bar for DN 200 Temperature range: -196°C to +120°C for valves of 1.4308, -255°C to +120°C for valves of 1.4409

71 Fenchurch Street, London, EC3M 4BS, UK

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**Torsten Schroeder**

Senior Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group

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## Other Conditions

Only fire safe design to be used for emergency shut down or terminal (end of pipe) applications for flammable fluids.  
The manufacturer's operating and maintenance instructions are to be sought.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ENS 32205-15, Issue No.2 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## **Appendix**

### **TYPES**

Globe valves:  
01345, 01355,  
01645, 01655,  
01741, 01743, 01745, 01751, 01753, 01755  
01841, 01843, 01845, 01851, 01853, 01855  
03341, 03343, 03351  
03641, 03643, 03651  
03741, 03743, 03751  
03841, 03843, 03851,

Globe valves bellow sealed:  
01272, 01282  
03252, 03272

### **DESCRIPTION**

Globe valves with flanged, threaded or welded sleeve connection consisting of stainless steel body (1.4308 for non-welded or 1.4409 for welded and non-welded versions), disc seat with surface stellite (NiCrBSi) or PTFE optional in fire safe design (1.4301 or 1.4401), bonnet with or without extension in stainless steel (1.4301, 1.4401 for non-welded or 1.4404, 1.4571, 1.4307 optional for welded versions) or bronze, manual or pneumatically operated, with or without non-return function. Bellow sealed bonnet available.